AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (original): An attitude control system for a geostationary satellite including elongate members such as solar generators and/or antennas, in particular deployable members, which system includes gyroscopic actuators for supplying the torque necessary for maintaining the attitude of said satellite when subjected to disturbing forces or torques.

2. (original): The system claimed in claim 1 wherein said gyroscopic actuators are adapted to maintain a setpoint attitude during orbit correction phases.

3. (original): The system claimed in claim 2 wherein said gyroscopic actuators are adapted to control the attitude during a phase of insertion into a geostationary orbit.

4. (original): The system claimed in claim 1, further including an attitude regulation loop including a corrector such that the bandwidth of said loop contains the lowest and most energetic frequencies of the flexible modes of said elongate members.

5. (currently amended): The system claimed in claim 4 wherein said corrector ~~of said loop~~ is ~~of the~~ a proportional, integral, derivative ~~type~~ corrector and is associated with an attenuation filter.

6. (currently amended):   The system claimed in claim 4 wherein said corrector of

said loop is synthesized by means of advanced system control methods ~~such as the H∞ and~~

~~Linear Matrix Inequality methods~~.

7. (new):   The system claimed in claim 6 wherein said advanced system control

methods is one of H∞ and Linear Matrix Inequality methods.